

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SMC 60636/WO	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/005125	International filing date (day/month/year) 06/12/2004	(Earliest) Priority Date (day/month/year) 18/12/2003
Applicant AVECIA LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☒ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005125

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C309/50 C07D251/20 C09B62/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C C07D C09B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 759 247 A (GREGORY ET AL) 2 June 1998 (1998-06-02) examples	1-6, 17-21
X	US 6 190 423 B1 (SCHUMACHER CHRISTIAN ET AL) 20 February 2001 (2001-02-20) examples 51,52	1-6, 18-21
X	US 5 756 693 A (KENYON ET AL) 26 May 1998 (1998-05-26) example 11	1-6, 18-21
X	WO 97/27250 A (ZENECA LIMITED; TAYLOR, JOHN, ANTHONY) 31 July 1997 (1997-07-31) example 2	1-6, 18-21
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

9 March 2005

Date of mailing of the international search report

23/03/2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005125

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 075 428 A (JAEGER ET AL) 24 December 1991 (1991-12-24) examples	1-6, 18-21
X	EP 0 406 629 A (BAYER AG) 9 January 1991 (1991-01-09) page 7, line 5	1-6, 18-21
X	US 5 359 042 A (JAEGER ET AL) 25 October 1994 (1994-10-25) examples	1-6, 18-21
X	US 5 883 234 A (MENNICKE ET AL) 16 March 1999 (1999-03-16) examples	1-6, 18-21
X	WO 98/20077 A (CLARIANT FINANCE LIMITED; CLARIANT INTERNATIONAL LTD; NUSSER, RAINER) 14 May 1998 (1998-05-14) examples	1-6, 18-21
A	US 5 824 785 A (BAETTIG ET AL) 20 October 1998 (1998-10-20) cited in the application	1-21
A	US 5 599 386 A (SANO ET AL) 4 February 1997 (1997-02-04) cited in the application	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005125

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5759247	A	02-06-1998	GB 2312430 A , B JP 10060324 A	29-10-1997 03-03-1998
US 6190423	B1	20-02-2001	AT 247156 T BR 0005759 A DE 60004469 D1 DE 60004469 T2 EP 1106655 A2 ES 2204437 T3 ID 28578 A JP 2001187847 A MX PA00012095 A PT 1106655 T TR 200003630 A2 TW 546352 B	15-08-2003 17-07-2001 18-09-2003 01-07-2004 13-06-2001 01-05-2004 07-06-2001 10-07-2001 23-05-2002 31-12-2003 23-07-2001 11-08-2003
US 5756693	A	26-05-1998	AT 171973 T AU 2452495 A DE 69505251 D1 DE 69505251 T2 EP 0759956 A1 WO 9531505 A1 JP 10500163 T	15-10-1998 05-12-1995 12-11-1998 04-03-1999 05-03-1997 23-11-1995 06-01-1998
WO 9727250	A	31-07-1997	AU 1202497 A CN 1209152 A EP 0882098 A1 WO 9727250 A1 JP 2000504047 T	20-08-1997 24-02-1999 09-12-1998 31-07-1997 04-04-2000
US 5075428	A	24-12-1991	DE 3826060 A1 DE 3833380 A1 DE 58904191 D1 DE 58904407 D1 EP 0356681 A1 EP 0357915 A1 JP 2075665 A JP 2075664 A	01-02-1990 19-04-1990 03-06-1993 24-06-1993 07-03-1990 14-03-1990 15-03-1990 15-03-1990
EP 0406629	A	09-01-1991	DE 3922065 A1 DE 59008507 D1 EP 0406629 A2	17-01-1991 30-03-1995 09-01-1991
US 5359042	A	25-10-1994	DE 4214945 A1 DE 59309764 D1 EP 0568874 A2 JP 6016958 A	11-11-1993 14-10-1999 10-11-1993 25-01-1994
US 5883234	A	16-03-1999	DE 19638891 A1 EP 0831131 A1 JP 10110394 A	26-03-1998 25-03-1998 28-04-1998
WO 9820077	A	14-05-1998	WO 9820077 A1 ZA 9709877 A	14-05-1998 03-05-1999
US 5824785	A	20-10-1998	DE 69605156 D1 DE 69605156 T2 EP 0754207 A1	23-12-1999 21-06-2000 22-01-1997

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005125

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5824785	A		WO 9624636 A1	15-08-1996
			JP 10504856 T	12-05-1998
US 5599386	A	04-02-1997	DE 69520387 D1	26-04-2001
			DE 69520387 T2	12-07-2001
			EP 0682088 A1	15-11-1995
			JP 3396997 B2	14-04-2003
			JP 8073791 A	19-03-1996